

Publication

EP 0528522 A3 19940323

Application

EP 92305867 A 19920625

Priority

US 74075391 A 19910805

Abstract (en)

[origin: EP0528522A2] A digital communication network has a plurality of remote terminals (RTs) which communicate with a plurality of base stations (BSs) by radio links operating at a single frequency. Each RT monitors the signal strengths of outbound messages and keeps an ordered table indicating which BSs produce the highest strength signals. At sign-on, an RT sends a message to the BS at the top of the list. The message includes the first predetermined number of entries at the top of the list. Each BS monitors the number of RTs it can hear and the number of users attached to each BS. The BS to which the sign-on message is sent then decides on the basis of signal strength, number of users attached, and BS coverage which BS should be attached to the particular RT and then notifies a communications controller. Such decision thus levels the workload. Each RT monitors errors and requests re-evaluation of attachment when the error rate for the BS to which it is attached exceeds a predetermined value.

IPC 1-7

H04B 7/26; **H04L 12/28**

IPC 8 full level

H04B 7/26 (2006.01); **H04L 12/28** (2006.01); **H04W 84/16** (2009.01)

CPC (source: EP KR US)

H04B 7/26 (2013.01 - KR); **H04B 7/2609** (2013.01 - EP US); **H04W 36/30** (2013.01 - KR); **H04W 48/20** (2013.01 - KR); **H04W 84/16** (2013.01 - EP US)

Citation (search report)

- [A] EP 0405074 A2 19910102 - SYMBOL TECHNOLOGIES INC [US]
- [A] US 4144412 A 19790313 - ITO SADA0, et al
- [A] WO 8400654 A1 19840216 - MOTOROLA INC [US]

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DOCDB simple family (application)

EP 92305867 A 19920625; CN 92109171 A 19920804; DE 69224451 T 19920625; JP 19905792 A 19920703; KR 920013967 A 19920804; TW 81105796 A 19920722; US 74075391 A 19910805